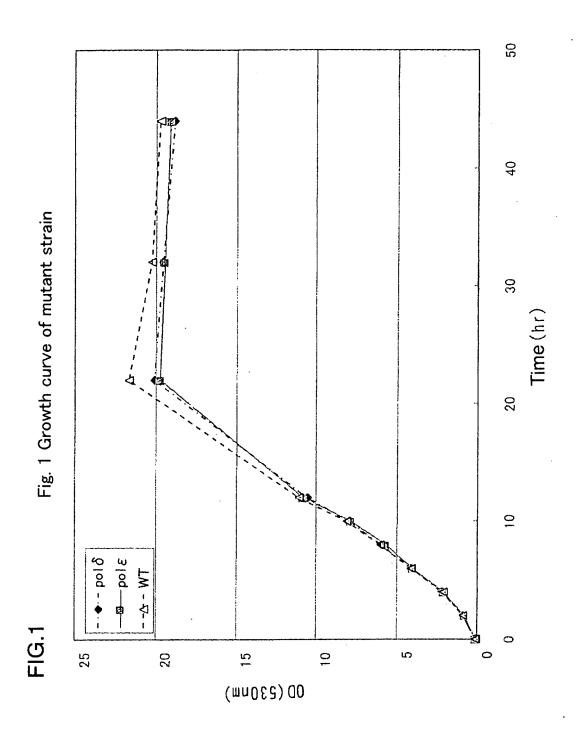
Inventor: Mitsuru Furusawa; Serial No. 10/810, 486

REPLACEMENT SHEET



Inventor: Mitsuru Furusawa; Serial No. 10/810, 486

REPLACEMENT SHEET

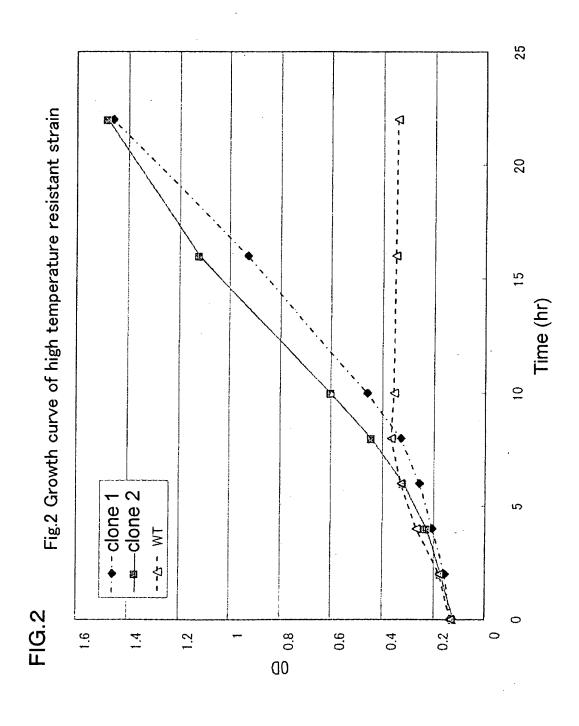
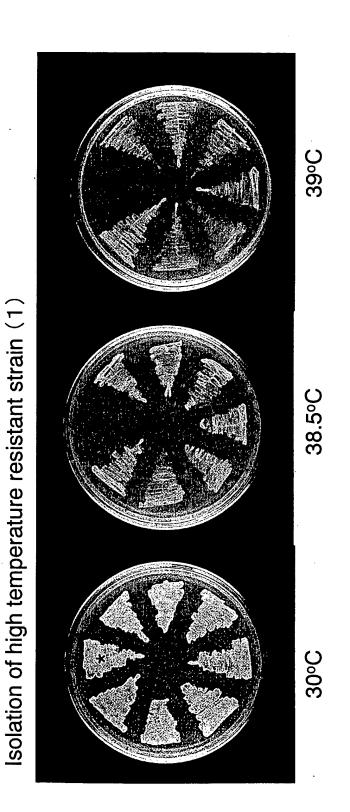


FIG.3A

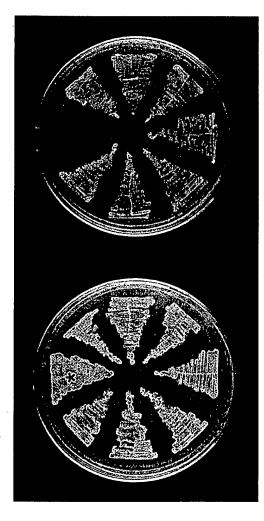


Inventor: Mitsuru Furusawa; Serial No. 10/810, 486

REPLACEMENT SHEET

NEO001-1

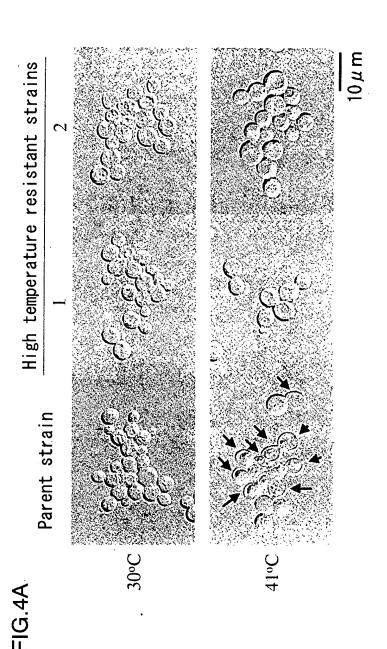
Isolation of high temperature resistant strain (2)



38.5°C

Inventor: Mitsuru Furusawa; Serial No. 10/810, 486





Inventor: Mitsuru Furusawa; Serial No. 10/810, 486

REPLACEMENT SHEET

NEO001-1

Growth of high temperature resistant strain (41°C)

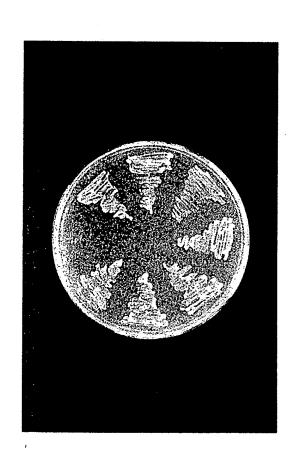


FIG.4

REPLACEMENT SHEET

NEO001-1

Transgenic mouse #1

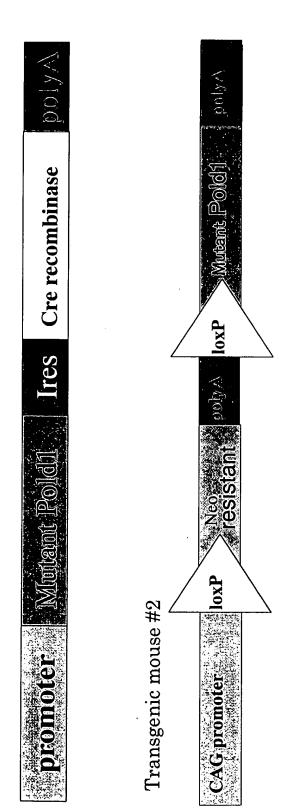


Fig.c

Desired Trait to an Organism

Inventor: Mitsuru Furusawa; Serial No. 10/810, 486

REPLACEMENT SHEET

NEO001-1

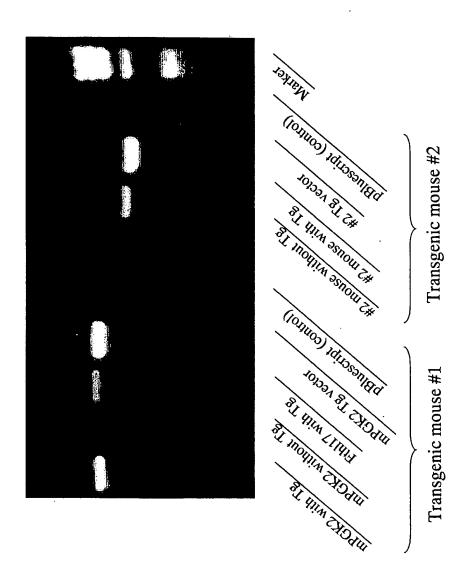
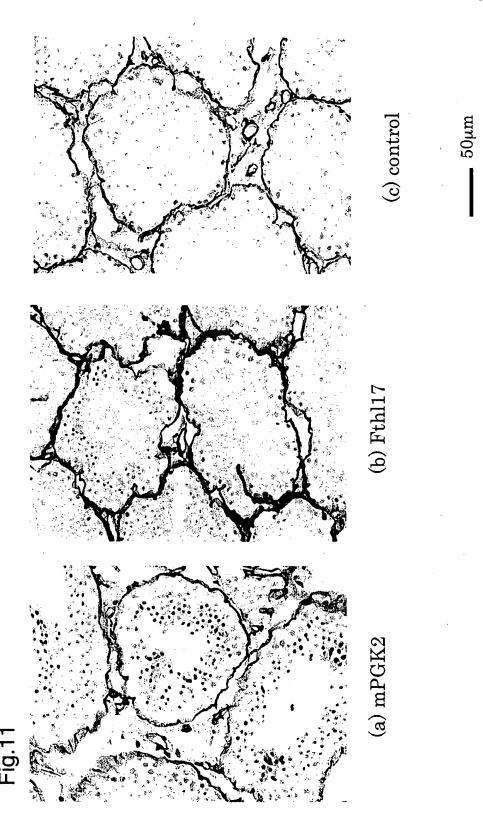


Fig.10

Inventor: Mitsuru Furusawa; Serial No. 10/810, 486

REPLACEMENT SHEET



Desired Trait to an Organism

Inventor: Mitsuru Furusawa; Serial No. 10/810, 486

REPLACEMENT SHEET

NEO001-1

lumen of seminiferous tubule

asal lamina

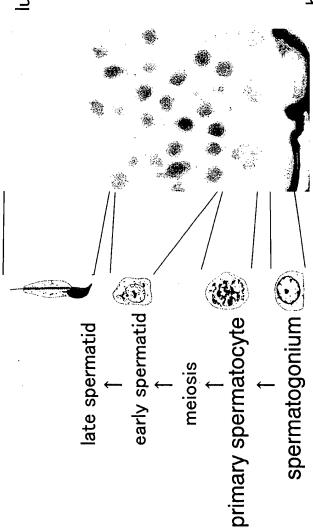


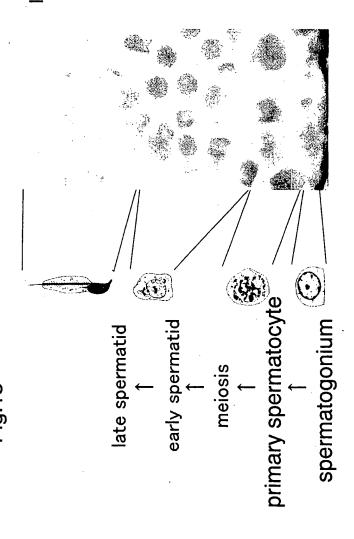
Fig. 12

REPLACEMENT SHEET

NEO001-1

lumen of seminiferous tubule

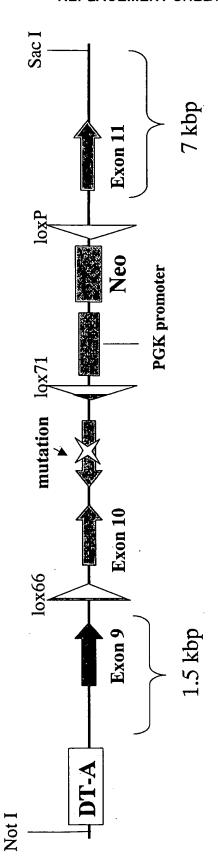
asal lamina



Desired Trait to an Organism

Inventor: Mitsuru Furusawa; Serial No. 10/810, 486

NEO001-1



Desired Trait to an Organism

Inventor: Mitsuru Furusawa; Serial No. 10/810, 486

REPLACEMENT SHEET

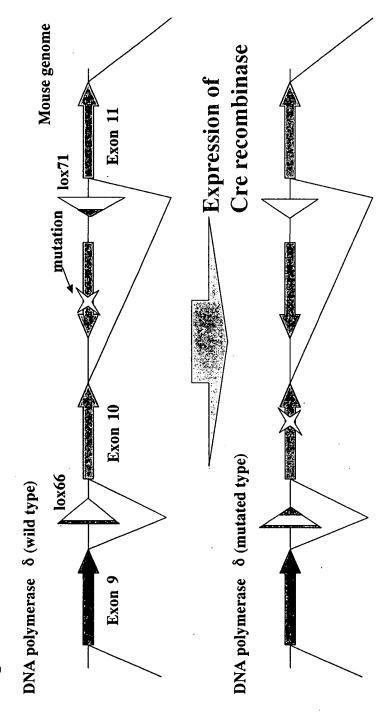


FIG. 15

Desired Trait to an Organism

Inventor: Mitsuru Furusawa; Serial No. 10/810, 486

REPLACEMENT SHEET

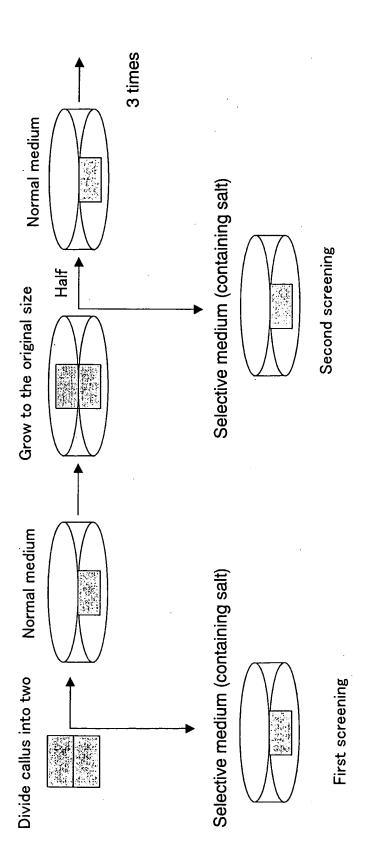
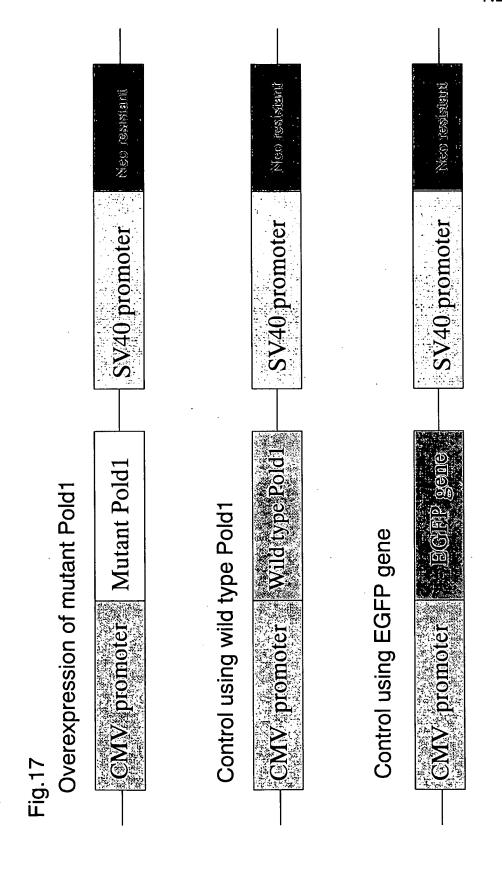


Fig. 16

Inventor: Mitsuru Furusawa; Serial No. 10/810, 486

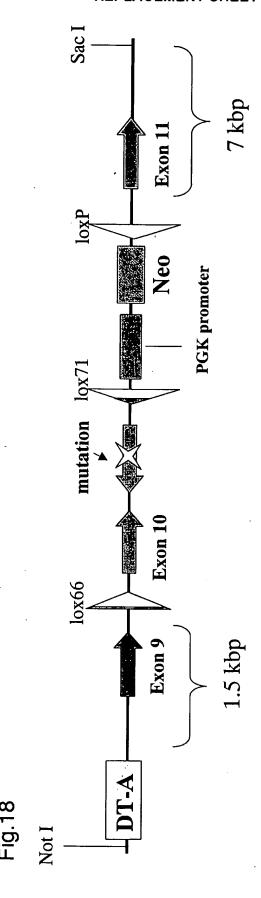
REPLACEMENT SHEET



Desired Trait to an Organism

Inventor: Mitsuru Furusawa; Serial No. 10/810, 486

REPLACEMENT SHEET



Desired Trait to an Organism

Inventor: Mitsuru Furusawa; Serial No. 10/810, 486

REPLACEMENT SHEET

SEQ ID NO:90 3684 nucleotides DNA Arabidopsis thaliana

CDS

(501)..(557)

(689)..(818)

(1008)..(1114)

(1194)..(1320)

(1469)..(1576)

(1671)..(1786)

(1858)..(1941)

(2040)..(2108)

(2198)..(2269)

(2352)..(2443)

(2545)..(2672)

(2772)..(2873)

(2965)..(3032)

(3122)..(3181)

agcgattcct tagcagaaag gcgctccatt tctctggcgt aaaccaaagg agatccttga 60

actgtttcct gcaccattgc tcttaaaacc cttctccggc acgaattctt ccaaccctgc 120

ttcaccaccg gaacattgag acaaaatctc gacggtgacg ctgaggttga aaaaaccaat 180

cgaaccgcag acgtaccagg aaccgaacca tgtatcaacg ccattgaaga agaagaagaa 240

gaagaaggtg aaaaacgaaa gattgagaat ttgtttgctt tgagcaacca aacctcagga 300

FIG. 19A

Desired Trait to an Organism

Inventor: Mitsuru Furusawa; Serial No. 10/810, 486

REPLACEMENT SHEET

| 11001 00/1901111 | |
|---|------|
| aaaaagagtt aaggtgggag tgtctggttc aaccggttta tatccggttc aaattaaacc | 360 |
| tcttacagtt aaccgggttt tgtgtttggt tcgattgttc ataaaagaaa gaagactctt | 420 |
| gtcgtcgatt agtgccaaag ttgaaagttg aaaccttttc tcagaatttt ctgctcagtt | 480 |
| ctgagttttt ttttcccgcc atg gaa atc gac tcc gag aaa att cac gaa agg Met Glu Ile Asp Ser Glu Lys Ile His Glu Arg 1 5 10 | 533 |
| aag caa tcc gat tac aat tcg ctg gtacgaactc tattacttta tcgacttgta Lys Gln Ser Asp Tyr Asn Ser Leu 15 | 587 |
| gtgaaagaca aatgtaatca ttcgtggtgg tgactgtttc tacttataag tgtacgggct | 647 |
| agggtttgtt atctgattct gagtttttgc aattgaagca g gat gag aga ttc gag Asp Glu Arg Phe Glu 20 | 703 |
| ata cag aag gag atg tac aga ggt cag caa tac agt cag att tac ttt Ile Gln Lys Glu Met Tyr Arg Gly Gln Gln Tyr Ser Gln Ile Tyr Phe 25 30 35 40 | 751 |
| gct cgt ctt cat ctc atg aga aca ctt ctc tac tct ctt gct cct act Ala Arg Leu His Leu Met Arg Thr Leu Leu Tyr Ser Leu Ala Pro Thr 45 50 55 | 799 |
| tgg aaa tct cat ttg cct g gtcagtgctt ttgtttctct catatttagc Trp Lys Ser His Leu Pro 60 | 848 |
| acaacaacga agagcagttt ttgagaattt tcttgggtta gatataatta ggtgaaatca | 908 |
| gtgattttta gggatttttg ctatcttatg gattacagtt gagaaagatt gctagtattg | 968 |
| tttaaattat agatctgaat gtgaatttca tttttgcag tg tgt aag gtt ttg Val Cys Lys Val Leu 65 | 1021 |
| gga ctt gaa aaa gga aaa gaa tgc ata att gtg gga acc ttg ttc aaa Gly Leu Glu Lys Gly Lys Glu Cys Ile Ile Val Gly Thr Leu Phe Lys 70 75 80 | 1069 |

FIG. 19B

Desired Trait to an Organism

Inventor: Mitsuru Furusawa; Serial No. 10/810, 486

REPLACEMENT SHEET

| cac atg aag ctt aaa cct tgt gtt ctc gat gaa tat tct aaa gag His Met Lys Leu Lys Pro Cys Val Leu Asp Glu Tyr Ser Lys Glu 85 90 95 | 1114 |
|---|------|
| gttggttttt attaacctct actgttttt tgagctatgt ctatgctgaa tcaatctgag | 1174 |
| tatatttaac ataatgcag agg tca gtt act ccg ctt gtt aaa cca cat aac Arg Ser Val Thr Pro Leu Val Lys Pro His Asn 100 105 | 1226 |
| ttt atg cat cct gat gat aat ctg atc ctc gaa gac gag agt ggg aga Phe Met His Pro Asp Asp Asn Leu Ile Leu Glu Asp Glu Ser Gly Arg 110 115 120 125 | 1274 |
| gtt aag ctt gct ggt tcc gca ctt tca cct gcg att tat gtg aca g Val Lys Leu Ala Gly Ser Ala Leu Ser Pro Ala Ile Tyr Val Thr 130 135 140 | 1320 |
| gtattgcaaa tgggttctta ctgtttttac tgtatgattt tttccttctt tacaatgtgg | 1380 |
| caaatcttag agattttgat caagctttcc tctcttaaaa gatgggttct ttaagaaaat | 1440 |
| taacgttgaa gcctcccgtg cattgtag gt gtt gtt gtt gca ctg cat ggg Gly Val Val Val Ala Leu His Gly 145 | 1491 |
| aag gaa act aat gct ggt gaa ttc ttt gtt gag gat gta cta gaa gct Lys Glu Thr Asn Ala Gly Glu Phe Phe Val Glu Asp Val Leu Glu Ala 150 155 160 | 1539 |
| ggt tta cca cct cag att gag cgg cct atc gat cta c gtaagtctag Gly Leu Pro Pro Gln Ile Glu Arg Pro Ile Asp Leu 165 170 175 | 1586 |
| ctatgttctc ttccttttgc taacctcatg gctcaatcat ttctataagc aatctctcat | 1646 |
| gatacatcca tattgcatct gcag ag gaa gat aaa tat gtc gtg tta ttg Gln Glu Asp Lys Tyr Val Val Leu Leu 180 185 | 1696 |
| tcg ggc ctt tgt att gga agc aaa tcg gct aat ccc ctg cag ttt cag Ser Gly Leu Cys Ile Gly Ser Lys Ser Ala Asn Pro Leu Gln Phe Gln 190 195 200 | 1744 |

FIG. 19C

Desired Trait to an Organism

Inventor: Mitsuru Furusawa; Serial No. 10/810, 486

| ctt ctt gtt gac cat ata act ggg cat ctc gga gat gag gag Leu Leu Val Asp His Ile Thr Gly His Leu Gly Asp Glu Glu 205 . 210 . 215 | 1786 |
|---|------|
| gttcaaatct cttaacttgc aggttgttca acatatttct ttccttaatt tatactttat | 1846 |
| ggtttgaaca g gaa caa ggc ctt gca gca cag ata gtt cat gta gta att Glu Gln Gly Leu Ala Ala Gln Ile Val His Val Val Ile 220 225 | 1896 |
| gct gga aac tct ttt gaa ttt ccc cgc aaa ctc att aat ggc cag Ala Gly Asn Ser Phe Glu Phe Pro Arg Lys Leu Ile Asn Gly Gln 230 235 240 | 1941 |
| gtacttataa cttttgttgc tgatatattc tcagatacag ttccagtaat tatctgcccc | 2001 |
| agttatgtct tatgatcttt attggttgat ctttgtag aac ttg gcc tcg aaa gat Asn Leu Ala Ser Lys Asp 245 | 2057 |
| caa tcg aca ctg tat gag ccc atc aaa gag ctt gat atc atg tta agc Gln Ser Thr Leu Tyr Glu Pro Ile Lys Glu Leu Asp Ile Met Leu Ser 250 255 260 265 | 2105 |
| cag gtcagttaac tggatctacg tgtgtgttat cgatatctat tgagatgaaa Gln | 2158 |
| gttcaaactc ctgtttttt ttttgtggat tgtttttag ata gct gca gga gtt Ile Ala Ala Gly Val 270 | 2212 |
| tca gta gat atc atg cca ggc acg aat gat cca gct aac ttc gca ttg Ser Val Asp Ile Met Pro Gly Thr Asn Asp Pro Ala Asn Phe Ala Leu 275 280 285 | 2260 |
| cct cag cag gtctgcaaat acataagaaa cattcaaaat cccgcatttt Pro Gln Gln 290 | 2309 |
| gtatcgataa ctctgattca taggcccttc tcttttgttc ag cct ctg aat aga Pro Leu Asn Arg | 2363 |

Desired Trait to an Organism

Inventor: Mitsuru Furusawa; Serial No. 10/810, 486

| tgt ctt ttc cct gga tct tca cct tat aac acc ttc aga tca tgt aca Cys Leu Phe Pro Gly Ser Ser Pro Tyr Asn Thr Phe Arg Ser Cys Thr 295 300 305 310 | 2411 |
|---|------|
| aat cct cac tca ttt gat gtc gat aat atc ag gtatgattat tattaatagt Asn Pro His Ser Phe Asp Val Asp Asn Ile Arg 315 320 | 2463 |
| tgaatacaat ctctctgatt ttacaacgat aaaattcttg ggtttatctg actgaaaacc | 2523 |
| tcatatgggg gcattttgca g a ttt ctt gga act tct ggt cag aac atc gat Phe Leu Gly Thr Ser Gly Gln Asn Ile Asp 325 330 | 2575 |
| gac ctt ggc aag tac tca gag gct aag agc aag ctt gat ttt gtg gaa Asp Leu Gly Lys Tyr Ser Glu Ala Lys Ser Lys Leu Asp Phe Val Glu 335 340 345 | 2623 |
| aga acg ctg agg tgg aga cat ctt gcc cca act gca cct aat aca ctc g Arg Thr Leu Arg Trp Arg His Leu Ala Pro Thr Ala Pro Asn Thr Leu 350 355 360 | 2672 |
| gtaagaattc tccttgccct gcaagattac ttttttgaac taagcccata aaaaaatgat | 2732 |
| cctttgagtt ctatttggtt ttgattcact tgcgtacag gt tgt tat cct ttc Gly Cys Tyr Pro Phe 365 | 2785 |
| acc gat aga gac cct ttc ttg att gaa acc tgc ccg cat gtc tac ttc. Thr Asp Arg Asp Pro Phe Leu Ile Glu Thr Cys Pro His Val Tyr Phe 370 375 380 | 2833 |
| gtc ggg aat caa gat aaa tat gac aac cgt ttg ata aag g gtaaaagcac Val Gly Asn Gln Asp Lys Tyr Asp Asn Arg Leu Ile Lys 385 390 395 | 2883 |
| cttacacaga gattagaaat aacattctct tttgtcaaac atcaggcttt aacttttctt | 2943 |
| gggtaaatat gaatgctgca g gg tca gaa ggg cag ctt gtc cgg ttg atc Gly Ser Glu Gly Gln Leu Val Arg Leu Ile 400 405 | 2993 |

Desired Trait to an Organism

Inventor: Mitsuru Furusawa; Serial No. 10/810, 486

| itel EAGEMENT 6 | – – . |
|--|-------|
| tgc att cct aag ttc tgt gag acc ggt att gct gtt gcg gtgagtttaa Cys Ile Pro Lys Phe Cys Glu Thr Gly Ile Ala Val Ala 410 415 420 | 3042 |
| aatttgagca gaatttgaga ccatttaccc tcatagattg cagattctaa atctcaaaat | 3102 |
| caccatgtct atttcgcag gtg aac cta aga aat ctg gaa tgt cac act tta Val Asn Leu Arg Asn Leu Glu Cys His Thr Leu 425 430 | 3154 |
| agc ttt agc act cag ata aac caa tca taacattgag ttgctacttt Ser Phe Ser Thr Gln Ile Asn Gln Ser 435 440 | 3201 |
| ggtagattat ttcctgtctt gaagatgtaa tgttgagctt tttcagtaac acactcctat | 3261 |
| gttctaacca aatgtttgtt aaaaatcctt tttcttgagt ggaacttcca aatctttgga | 3321 |
| tatattggta atgctcattg ttttgtccta attttctaaa aatctcgaca cgagttctta | 3381 |
| ggtagtcaca taaaggacaa aaagggccga ccagatagtg tcgtggtcgt tggtcagaag | 3441 |
| aacgtgaaaa gactgcaaaa ataatcttaa aaaaagcaac aagtgcacag aatctcatgc | 3501 |
| aaatgtctct ctctcttc tcaacggcta tatccatcca cacttattac attataaaat | 3561 |
| taattaaatg caataatgta acgcattata ttctccaacg gtccattttc ccgcatttcc | 3621 |
| ctaacctttc ctttataacg caaaacagtt tcatcttcta cacttaacac tttaatcctc | 3681 |
| tct | 3684 |

Desired Trait to an Organism

Inventor: Mitsuru Furusawa; Serial No. 10/810, 486

REPLACEMENT SHEET

SEQ ID NO:92 3684 nucleotides DNA Arabidopsis thaliana

CDS

(501)..(557)

(689)..(818)

(1008)..(1114)

(1194)..(1320)

(1469)..(1576)

(1671)..(1786)

(1858)..(1941)

(2040)..(2108)

(2198)..(2269)

(2352)..(2443)

(2545)..(2672)

(2772)..(2873)

(2965)..(3032)

(3122)..(3181)

agcgattcct tagcagaaag gcgctccatt tctctggcgt aaaccaaagg agatccttga 60

actytitcct gcaccattgc tcttaaaacc cttctccggc acgaattctt ccaaccctgc 120

ttcaccaccg gaacattgag acaaaatctc gacggtgacg ctgaggttga aaaaaccaat 180

cgaaccgcag acgtaccagg aaccgaacca tgtatcaacg ccattgaaga agaagaagaa 240

gaagaaggtg aaaaacgaaa gattgagaat ttgtttgctt tgagcaacca aacctcagga 300

FIG. 20A

Desired Trait to an Organism

Inventor: Mitsuru Furusawa; Serial No. 10/810, 486

REPLACEMENT SHEET

| TE: E/GEME | 0 |
|---|--------|
| aaaaagagtt aaggtgggag tgtctggttc aaccggttta tatccggttc aaattaaac | cc 360 |
| tcttacagtt aaccgggttt tgtgtttggt tcgattgttc ataaaagaaa gaagactc | tt 420 |
| gtcgtcgatt agtgccaaag ttgaaagttg aaaccttttc tcagaatttt ctgctcag | tt 480 |
| ctgagttttt ttttcccgcc atg gaa atc gac tcc gag aaa att cac gaa ag Met Glu Ile Asp Ser Glu Lys Ile His Glu Ai 1 5 10 | |
| aag caa too gat tac aat tog otg gtacgaacto tattacttta togacttgta Lys Gln Ser Asp Tyr Asn Ser Leu 15 | a 587 |
| gtgaaagaca aatgtaatca ttcgtggtgg tgactgtttc tacttataag tgtacggg | ct 647 |
| agggtttgtt atctgattct gagtttttgc aattgaagca g gat gag aga ttc g Asp Glu Arg Phe G 20 | |
| ata cag aag gag atg tac aga ggt cag caa tac agt cag att tac ttt Ile Gln Lys Glu Met Tyr Arg Gly Gln Gln Tyr Ser Gln Ile Tyr Phe 25 30 35 40 | 751 |
| gct cgt ctt cat ctc atg aga aca ctt ctc tac tct ctt gct cct act Ala Arg Leu His Leu Met Arg Thr Leu Leu Tyr Ser Leu Ala Pro Thr 45 50 55 | |
| tgg aaa tct cat ttg cct g gtcagtgctt ttgtttctct catatttagc Trp Lys Ser His Leu Pro 60 | 848 |
| acaacaacga agagcagttt ttgagaattt tcttgggtta gatataatta ggtgaaat | ca 908 |
| gtgattttta gggatttttg ctatcttatg gattacagtt gagaaagatt gctagtat | tg 968 |
| tttaaattat agatctgaat gtgaatttca tttttgcag tg tgt aag gtt ttg Val Cys Lys Val Leu 65 | 1021 |
| gga ctt gaa aaa gga aaa gaa tgc ata att gtg gga acc ttg ttc aaa Gly Leu Glu Lys Gly Lys Glu Cys Ile Ile Val Gly Thr Leu Phe Lys 70 75 80 | |
| | |

FIG. 20B

Desired Trait to an Organism

Inventor: Mitsuru Furusawa; Serial No. 10/810, 486

REPLACEMENT SHEET

| cac atg aag ctt aaa cct tgt gtt ctc gat gaa tat tct aaa gag His Met Lys Leu Lys Pro Cys Val Leu Asp Glu Tyr Ser Lys Glu 85 90 95 | 1114 |
|---|------|
| gttggttttt attaacctct actgtttttt tgagctatgt ctatgctgaa tcaatctgag | 1174 |
| tatatttaac ataatgcag agg tca gtt act ccg ctt gtt aaa cca cat aac Arg Ser Val Thr Pro Leu Val Lys Pro His Asn 100 105 | 1226 |
| ttt atg cat cct gat gat aat ctg atc ctc gaa gac gag agt ggg aga Phe Met His Pro Asp Asp Asn Leu Ile Leu Glu Asp Glu Ser Gly Arg 110 115 120 125 | 1274 |
| gtt aag ctt gct ggt tcc gca ctt tca cct gcg att tat gtg aca g Val Lys Leu Ala Gly Ser Ala Leu Ser Pro Ala Ile Tyr Val Thr 130 135 140 | 1320 |
| gtattgcaaa tgggttctta ctgtttttac tgtatgattt tttccttctt tacaatgtgg | 1380 |
| caaatcttag agattttgat caagctttcc tctcttaaaa gatgggttct ttaagaaaat | 1440 |
| taacgttgaa gcctcccgtg cattgtag gt gtt gtt gtt gca ctg cat ggg Gly Val Val Val Ala Leu His Gly 145 | 1491 |
| aag gaa act aat gct ggt gaa ttc ttt gtt gag gat gta cta gaa gct Lys Glu Thr Asn Ala Gly Glu Phe Phe Val Glu Asp Val Leu Glu Ala 150 155 160 | 1539 |
| ggt tta cca cct cag att gag cgg cct atc gat cta c gtaagtctag Gly Leu Pro Pro Gln Ile Glu Arg Pro Ile Asp Leu 165 170 175 | 1586 |
| ctatgttctc ttccttttgc taacctcatg gctcaatcat ttctataagc aatctctcat | 1646 |
| gatacatcca tattgcatct gcag ag gaa gat aaa tat gtc gtg tta ttg Gln Glu Asp Lys Tyr Val Val Leu Leu 180 185 | 1696 |
| tcg ggc ctt tgt att gga agc aaa tcg gct aat ccc ctg cag ttt cag Ser Gly Leu Cys Ile Gly Ser Lys Ser Ala Asn Pro Leu Gln Phe Gln 190 195 200 | 1744 |

FIG. 20C

Desired Trait to an Organism

Inventor: Mitsuru Furusawa; Serial No. 10/810, 486

| ctt ctt gtt gac cat ata act ggg cat ctc gga gat gag gag Leu Leu Val Asp His Ile Thr Gly His Leu Gly Asp Glu Glu 205 210 215 | 1786 |
|---|------|
| gttcaaatct cttaacttgc aggttgttca acatatttct ttccttaatt tatactttat | 1846 |
| ggtttgaaca g gaa caa ggc ctt gca gca cag ata gtt cat gta gta att Glu Gln Gly Leu Ala Ala Gln Ile Val His Val Val Ile 220 225 | 1896 |
| gct gga aac tct ttt gaa ttt ccc cgc aaa ctc att aat ggc cag Ala Gly Asn Ser Phe Glu Phe Pro Arg Lys Leu Ile Asn Gly Gln 230 235 240 | 1941 |
| gtacttataa cttttgttgc tgatatattc tcagatacag ttccagtaat tatctgcccc | 2001 |
| agttatgtct tatgatcttt attggttgat ctttgtag aac ttg gcc tcg aaa gat Asn Leu Ala Ser Lys Asp 245 | 2057 |
| caa tcg aca ctg tat gag ccc atc aaa gag ctt gat atc atg tta agc Gln Ser Thr Leu Tyr Glu Pro Ile Lys Glu Leu Asp Ile Met Leu Ser 250 255 260 265 | 2105 |
| cag gtcagttaac tggatctacg tgtgtgttat cgatatctat tgagatgaaa Gln | 2158 |
| gttcaaactc ctgtttttt ttttgtggat tgtttttag ata gct gca gga gtt Ile Ala Ala Gly Val 270 | 2212 |
| tca gta gat atc atg cca ggc acg aat gat cca gct aac ttc gca ttg Ser Val Asp Ile Met Pro Gly Thr Asn Asp Pro Ala Asn Phe Ala Leu 275 280 285 | 2260 |
| cct cag cag gtctgcaaat acataagaaa cattcaaaat cccgcatttt Pro Gln Gln 290 | 2309 |
| gtatcgataa ctctgattca taggcccttc tcttttgttc ag cct ctg aat aga Pro Leu Asn Arg | 2363 |

Desired Trait to an Organism

Inventor: Mitsuru Furusawa; Serial No. 10/810, 486

| REPLACEIVIENT 5 | пссі |
|---|------|
| tgt ctt ttc cct gga tct tca cct tat aac acc ttc aga tca tgt aca Cys Leu Phe Pro Gly Ser Ser Pro Tyr Asn Thr Phe Arg Ser Cys Thr 295 300 305 310 | 2411 |
| aat cct cac tca ttt gct gtc gat aat atc ag gtatgattat tattaatagt Asn Pro His Ser Phe Ala Val Asp Asn Ile Arg 315 320 | 2463 |
| tgaatacaat ctctctgatt ttacaacgat aaaattcttg ggtttatctg actgaaaacc | 2523 |
| tcatatgggg gcattttgca g a ttt ctt gga act tct ggt cag aac atc gat Phe Leu Gly Thr Ser Gly Gln Asn Ile Asp 325 330 | 2575 |
| gac ctt ggc aag tac tca gag gct aag agc aag ctt gat ttt gtg gaa Asp Leu Gly Lys Tyr Ser Glu Ala Lys Ser Lys Leu Asp Phe Val Glu 335 340 345 | 2623 |
| aga acg ctg agg tgg aga cat ctt gcc cca act gca cct aat aca ctc g Arg Thr Leu Arg Trp Arg His Leu Ala Pro Thr Ala Pro Asn Thr Leu 350 355 360 | 2672 |
| gtaagaattc tccttgccct gcaagattac ttttttgaac taagcccata aaaaaatgat | 2732 |
| cctttgagtt ctatttggtt ttgattcact tgcgtacag gt tgt tat cct ttc Gly Cys Tyr Pro Phe 365 | 2785 |
| acc gat aga gac cct ttc ttg att gaa acc tgc ccg cat gtc tac ttc Thr Asp Arg Asp Pro Phe Leu Ile Glu Thr Cys Pro His Val Tyr Phe 370 375 380 | 2833 |
| gtc ggg aat caa gat aaa tat gac aac cgt ttg ata aag g gtaaaagcac Val Gly Asn Gln Asp Lys Tyr Asp Asn Arg Leu Ile Lys 385 390 395 | 2883 |
| cttacacaga gattagaaat aacattctct tttgtcaaac atcaggcttt aacttttctt | 2943 |
| gggtaaatat gaatgctgca g gg tca gaa ggg cag ctt gtc cgg ttg atc Gly Ser Glu Gly Gln Leu Val Arg Leu Ile 400 405 | 2993 |

Desired Trait to an Organism

Inventor: Mitsuru Furusawa; Serial No. 10/810, 486

| tgc att cct aag ttc tgt gag acc ggt att gct gtt gcg gtgagtttaa Cys Ile Pro Lys Phe Cys Glu Thr Gly Ile Ala Val Ala 410 415 420 | 3042 |
|--|---------|
| aatttgagca gaatttgaga ccatttaccc tcatagattg cagattctaa atctcaaaa | nt 3102 |
| caccatgtct atttcgcag gtg aac cta aga aat ctg gaa tgt cac act tta Val Asn Leu Arg Asn Leu Glu Cys His Thr Leu 425 430 | |
| agc ttt agc act cag ata aac caa tca taacattgag ttgctacttt Ser Phe Ser Thr Gln Ile Asn Gln Ser 435 440 | 3201 |
| ggtagattat ttcctgtctt gaagatgtaa tgttgagctt tttcagtaac acactccta | at 3261 |
| gttctaacca aatgtttgtt aaaaatcctt tttcttgagt ggaacttcca aatctttgg | ga 3321 |
| tatattggta atgctcattg ttttgtccta attttctaaa aatctcgaca cgagttctt | ta 3381 |
| ggtagtcaca taaaggacaa aaagggccga ccagatagtg tcgtggtcgt tggtcagaa | ag 3441 |
| aacgtgaaaa gactgcaaaa ataatcttaa aaaaagcaac aagtgcacag aatctcatg | gc 3501 |
| aaatgtctct ctctctttc tcaacggcta tatccatcca cacttattac attataaaa | at 3561 |
| taattaaatg caataatgta acgcattata ttctccaacg gtccattttc ccgcatttc | cc 3621 |
| ctaacctttc ctttataacg caaaacagtt tcatcttcta cacttaacac tttaatcct | tc 3681 |
| tct | 3684 |
| | |